

# UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/938,895	•	08/24/2001	Mac Stevens	P157-US	3335	
27520 7590 04/27/2004		EXAMINER		INER		
FORMFAC	CTOR, IN	C.	KHATRI, ANIL			
LEGAL DEI 2140 RESEA			ART UNIT	PAPER NUMBER		
LIVERMOR			2124	2		
				DATE MAILED: 04/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 24 August 2001. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3]□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 □ Claim(s) ± is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 □ Claim(s) ± is/are allowed. 6 □ Claim(s) ± is/are ejected. 7 □ Claim(s) is/are objected to. 8 □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9 □ The specification is objected to by the Examiner. 10 □ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) ☑ Notice of References Cited (PTO-82) 2)□ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)□ Notice of Informal Patent Application (PTO-152) 9 □ Old Other:										
Examiner Anti Khatri 2122  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address —  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  - Examinem of term my is available under the provision of 17 CPR 1.138(a). In ne event, however, may a reply be timely filled  - If the period fror reply special device is less than the'ry (0.0) days, a reply which he distulatory minimum of time; (30) days will be considered timely.  - If NO period for reply is special device, the reparation statistically period will apply and will expire SK (0) MONITIS from the making date of this communication from the replacement. See 37 CPR 1.704(b).  Status  1   NO period for reply special device than the're moniting eate of this communication, even if timely filled, may reduce any search patent term adjustment. See 37 CPR 1.704(b).  Status  1   Responsive to communication(s) filled on 24 August 2001.  2a   This action is FINAL.  2b   This action is non-final.  3)   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)   Claim(s) ½ is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5  Claim(s) is/are rejected.  7  Claim(s) is/are rejected to.  8  Claim(s) is/are rejected to.  8  Claim(s) is/are rejected to.  9  The specification is objected to by the Examiner.  Application Papers  9  The specification is objected to by the Examiner.  Application Papers  9  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3  All b  Some *c  Now *color *col			Application	on No.	Applicant(s)					
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Art Unit: 2122

#### **DETAILED ACTION**

## Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Process and Apparatus for Adjusting Traces for a Electronic System".

The disclosure is objected to because of the following informalities: Summary of the invention and abstract are identical. Appropriate correction is required.

#### Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- (d) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.
  - Or alternatively, <u>Reference to a "Microfiche Appendix</u>": See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.
- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:

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Application/Control Number: 09/938,895

Art Unit: 2122

(1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."

- (2) Description of the Related Art including information disclosed under 37

  CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).

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(j) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).

(k) <u>Sequence Listing</u>, See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

The disclosure is objected to because of the following informalities: see page 4 and 12 US patent serial number are missing.

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by *Lichtenstein et al.* USPN 6,077,311.

Regarding claim 1

Lichtenstein et al. teaches,

- receiving computer readable data comprising parameter defining routing space, traces and obstacles within routing space each trace comprising a plurality of interconnected nodes (see figure 3, column 6, lines 51-60, "the process invokes... executable

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program", and column 16, lines 22-24, "the merge process...ordered set of variables");

- determine spacing between adjacent nodes of each trace and adjusting a number of nodes in each trace based on spacing (column 5, lines 63-67, "to maintain state while generating... purple region");
- assigning forces to nodes of each trace based on a proximity of nodes to object within routing area objects including at least one of an obstacle and other nodes (column 6, lines 15-21, "a recent/mod ref trace... distant proximity") and
- moving nodes in accordance with forces (column 10, lines 45-49, " a region entry event... stack allocated objects").

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- USPN 6553565
- USPN 6317869
- USPN 5956512
- USPN 5948113
- USPN 5926176

### **Correspondance Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anil Khatri, Primary Examiner whose telephone number is (703) 305-0282, Mon-Fri (8:30 a.m.-5:00 p.m.).

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose phone number is (703) 305-3900.

April 21, 2004

ANIL KHATRI